FIG. 1

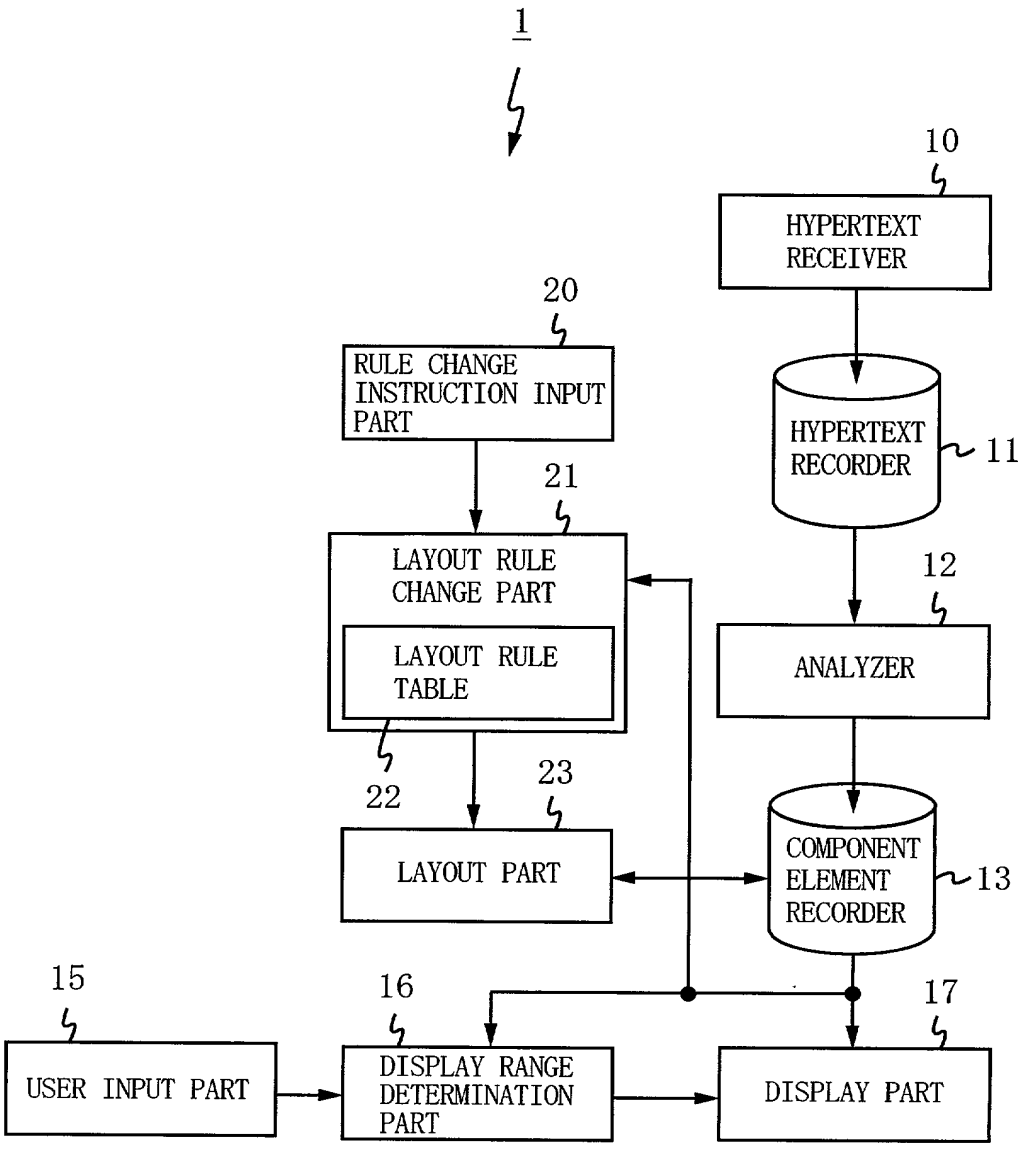
1
10
HYPERTEXT RECEIVER
20
RULE CHANGE INSTRUCTION INPUT PART
HYPERTEXT RECORDER
11
21
LAYOUT RULE CHANGE PART
LAYOUT RULE TABLE
12
ANALYZER
22
23
LAYOUT PART
COMPONENT ELEMENT RECORDER
13
15
16
17
USER INPUT PART
DISPLAY RANGE DETERMINATION PART
DISPLAY PART

FIG. 2

```
<HTML>
<BODY>
<P>HOT TOPIC
<P>BIG TYPHOON APPROACHING JAPAN.
<TABLE border=1>
<TR><TD><TD>WEATHER<TD>HIGH
<TR><TD><A href="tyo.Html">TYO</A>
<TD>SHOWERS<TD>22℃
<TR><TD><A href="osa.Html">OSA</A>
<TD>CLOUDY<TD>23℃
<TR><TD><A href="sel.Html">SEL</A>
<TD>DRIZZLE<TD>19℃
<TR><TD><A href="pek.Html">PEK</A>
<TD>SUNNY<TD>18℃
<TR><TD><A href="sha.Html">SHA</A>
<TD>CLOUDY<TD>22℃
<TR><TD><A href="tpe.Html">TPE</A>
<TD>RAIN<TD>25℃
</TABLE>
</BODY>
</HTML>
```

FIG. 3

COMPONENT ELEMENT IDENTIFIER	TYPE	CONTENTS	POSITION	SIZE	FONT SIZE	COLOR
ID1	TEXT	HOT TOPIC	(x1, y1)	(w1, h1)	10pt	BLACK
ID2	TEXT	BIG TYPHOON ···	(x2, y2)	(w2, h2)	10pt	BLACK
ID3	TABLE	TABLE 1	(x3, y3)	(w3, h3)	—	BLACK
ID3-1	TEXT	WEATHER	(x4, y4)	(w4, h4)	10pt	BLACK
ID3-2	TEXT	HIGH	(x5, y5)	(w5, h5)	10pt	BLACK
⋮	⋮	⋮	⋮	⋮	⋮	⋮

FIG. 4

LAYOUT RULE NUMBER	FOR LAYOUT	APPLICABLE ELEMENT	LAYOUT METHOD
FIRST LAYOUT RULE	ENTIRE DOCUMENT	TEXT ELEMENT	LAYOUT BASED ON SCREEN WIDTH
		TABLE ELEMENT	USE SPECIFIED COLUMN WIDTH
		• •	• •
SECOND LAYOUT RULE	ENTIRE DOCUMENT	TEXT ELEMENT	LAYOUT BASED ON SCREEN WIDTH
		TABLE ELEMENT	USE COLUMN WIDTH CALCULATED TO FIT TABLE IN SCREEN WIDTH
		• •	• •
THIRD LAYOUT RULE	ONLY TABLE	TABLE ELEMENT	USE SPECIFIED COLUMN WIDTH
FOURTH LAYOUT RULE	ENTIRE DOCUMENT	TEXT ELEMENT	LAYOUT BASED ON SCREEN WIDTH
		TABLE ELEMENT	ARRANGE MARK INDICATING TABLE
		• •	• •
• •	• •	• •	• •

FIG. 5

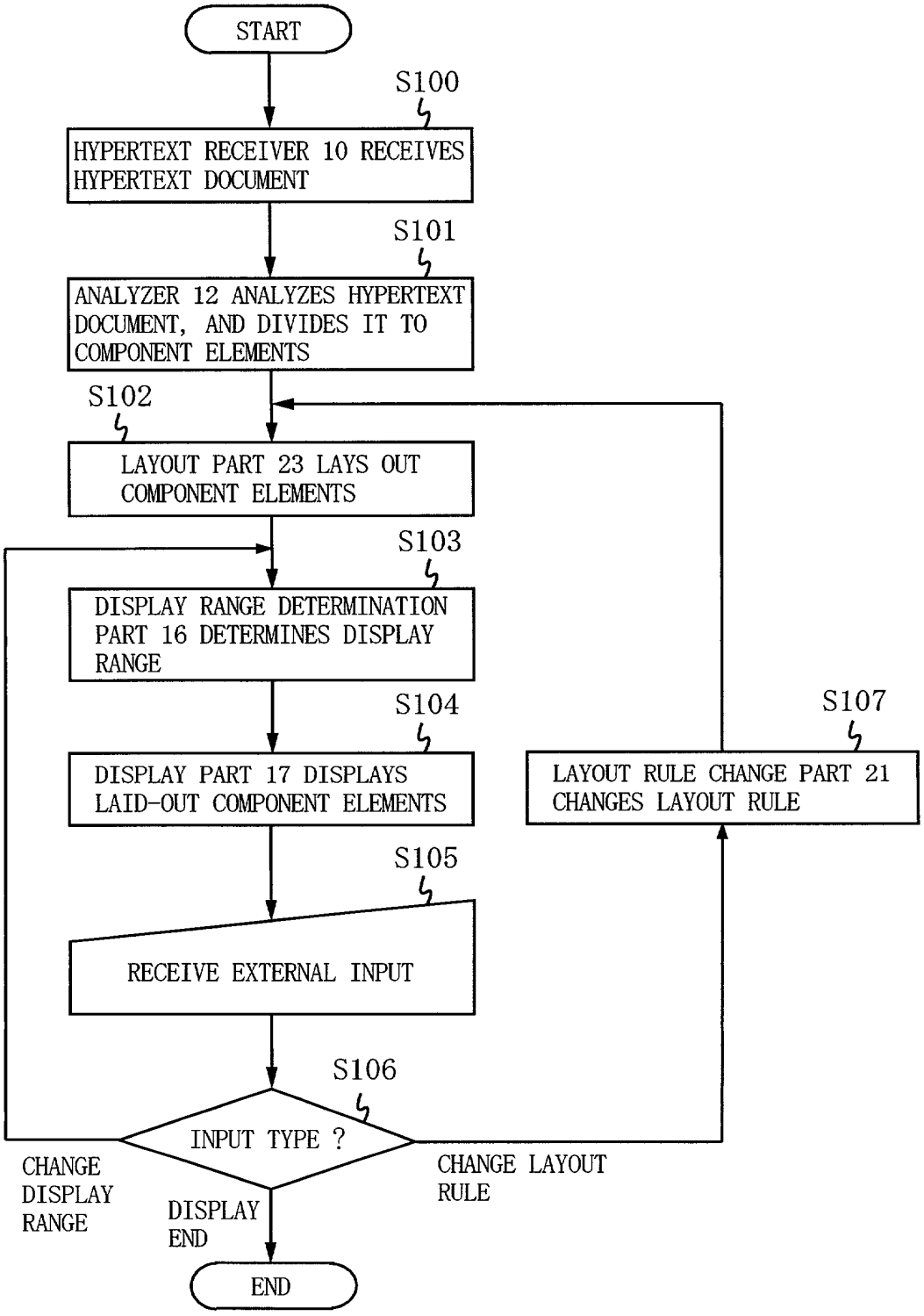
START
S100
HYPERTEXT RECEIVER 10 RECEIVES HYPERTEXT DOCUMENT
S101
ANALYZER 12 ANALYZES HYPERTEXT DOCUMENT, AND DIVIDES IT TO COMPONENT ELEMENTS
S102
LAYOUT PART 23 LAYS OUT COMPONENT ELEMENTS
S103
DISPLAY RANGE DETERMINATION PART 16 DETERMINES DISPLAY RANGE
S104
DISPLAY PART 17 DISPLAYS LAID-OUT COMPONENT ELEMENTS
S105
RECEIVE EXTERNAL INPUT
S106
INPUT TYPE ?
CHANGE DISPLAY RANGE
DISPLAY END
CHANGE LAYOUT RULE
S107
LAYOUT RULE CHANGE PART 21 CHANGES LAYOUT RULE
END

FIG. 6

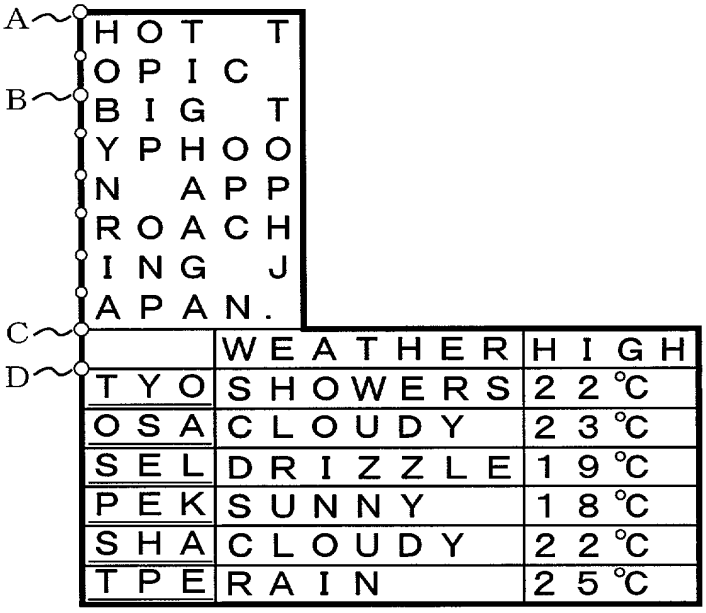
A
B
C
D
HOT T
OPIC
BIG T
YPHOO
N APP
ROACH
ING J
APAN.
WEATHER
HIGH
TYO
SHOWERS
22℃
OSA
CLOUDY
23℃
SEL
DRIZZLE
19℃
PEK
SUNNY
18℃
SHA
CLOUDY
22℃
TPE
RAIN
25℃

FIG. 7

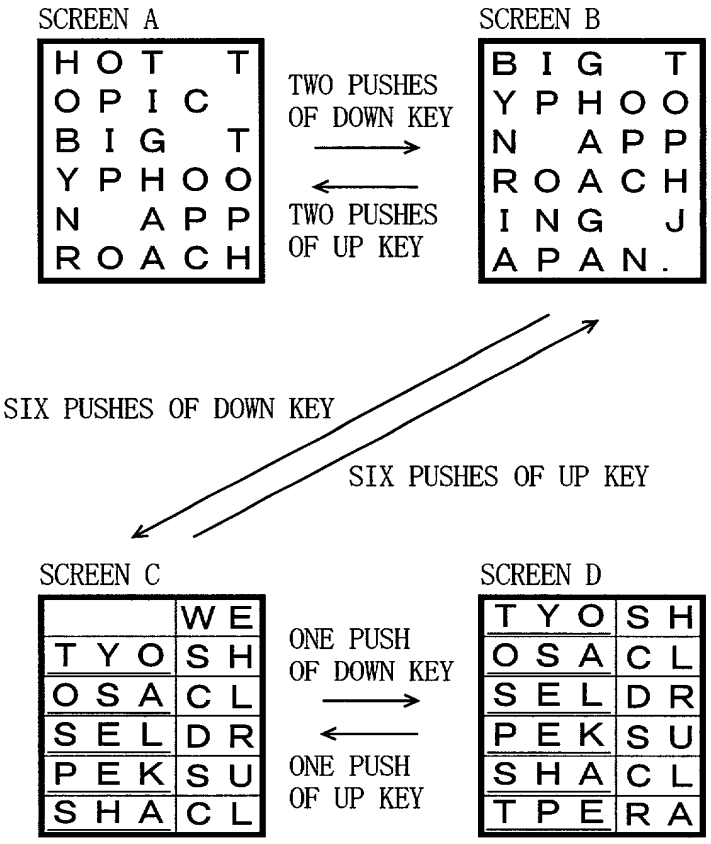
SCREEN A
HOT T
OPIC
BIG T
YPHOO
N APP
ROACH
TWO PUSHES OF DOWN KEY
TWO PUSHES OF UP KEY
SCREEN B
BIG T
YPHOO
N APP
ROACH
ING J
APAN.
SIX PUSHES OF DOWN KEY
SIX PUSHES OF UP KEY
SCREEN C
WE
TYO SH
OSA CL
SEL DR
PEK SU
SHA CL
ONE PUSH OF DOWN KEY
ONE PUSH OF UP KEY
SCREEN D
TYO SH
OSA CL
SEL DR
PEK SU
SHA CL
TPE RA

FIG. 8

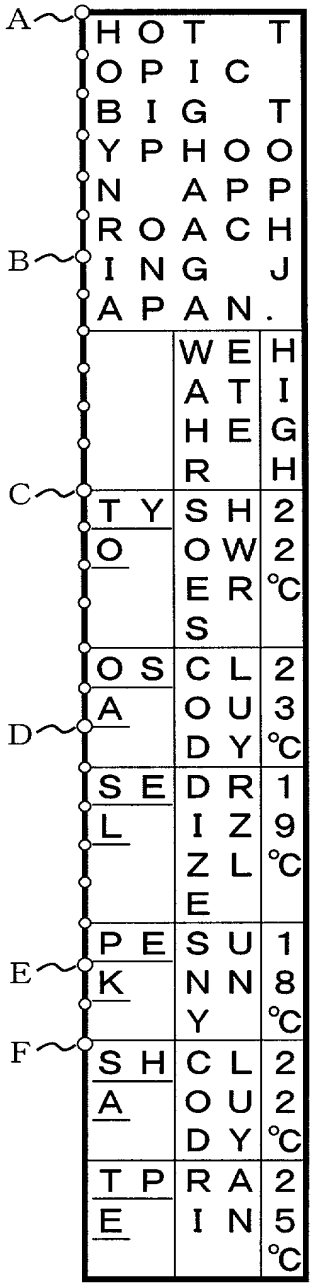
A
B
C
D
E
F
HOT TOPIC
BIG TOPHJ
YPHOOP
N APPH
ROACHJ
ING
APAN.
WEATHER
HIGH
TYOKYO
SHOWER
22℃
OSAKA
CLOUDY
23℃
SEOUL
DRIZZLE
19℃
PEKING
SUNNY
18℃
SHANGHAI
CLOUDY
22℃
TOKYO
RAIN
25℃

FIG. 9

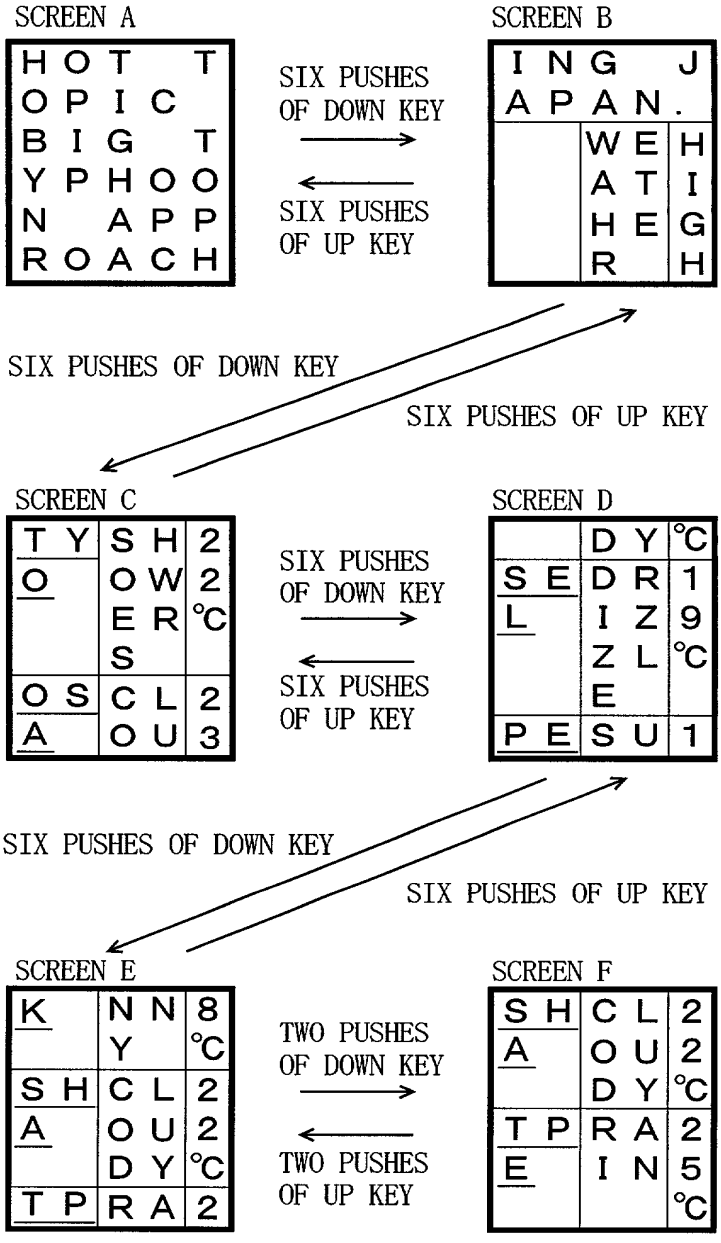
SCREEN A
HOT T
OPIC
BIG T
YPHOO
N APP
ROACH
SIX PUSHES OF DOWN KEY
SIX PUSHES OF UP KEY
SCREEN B
ING J
APAN.
WEH
ATI
HEG
RH
SIX PUSHES OF DOWN KEY
SIX PUSHES OF UP KEY
SCREEN C
TY SH 2
O OW 2
ER ℃
S
OS CL 2
A OU 3
SIX PUSHES OF DOWN KEY
SIX PUSHES OF UP KEY
SCREEN D
DY ℃
SE DR 1
L IZ 9
ZL ℃
E
PE SU 1
SIX PUSHES OF DOWN KEY
SIX PUSHES OF UP KEY
SCREEN E
K NN 8
Y ℃
SH CL 2
A OU 2
DY ℃
TP RA 2
TWO PUSHES OF DOWN KEY
TWO PUSHES OF UP KEY
SCREEN F
SH CL 2
A OU 2
DY ℃
TP RA 2
E IN 5
℃

FIG. 10

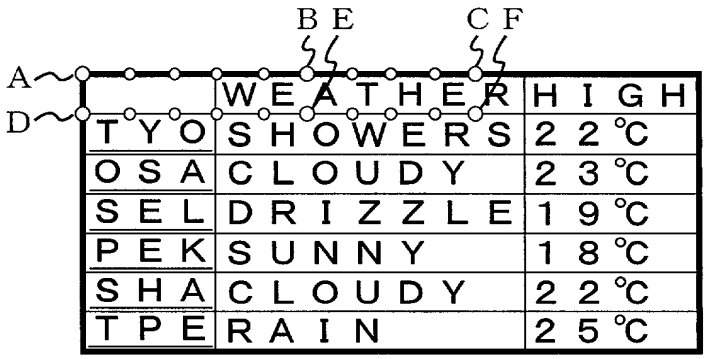
B E
C F
A
D
WEATHER HIGH
TYO SHOWERS 22℃
OSA CLOUDY 23℃
SEL DRIZZLE 19℃
PEK SUNNY 18℃
SHA CLOUDY 22℃
TPE RAIN 25℃

FIG. 11

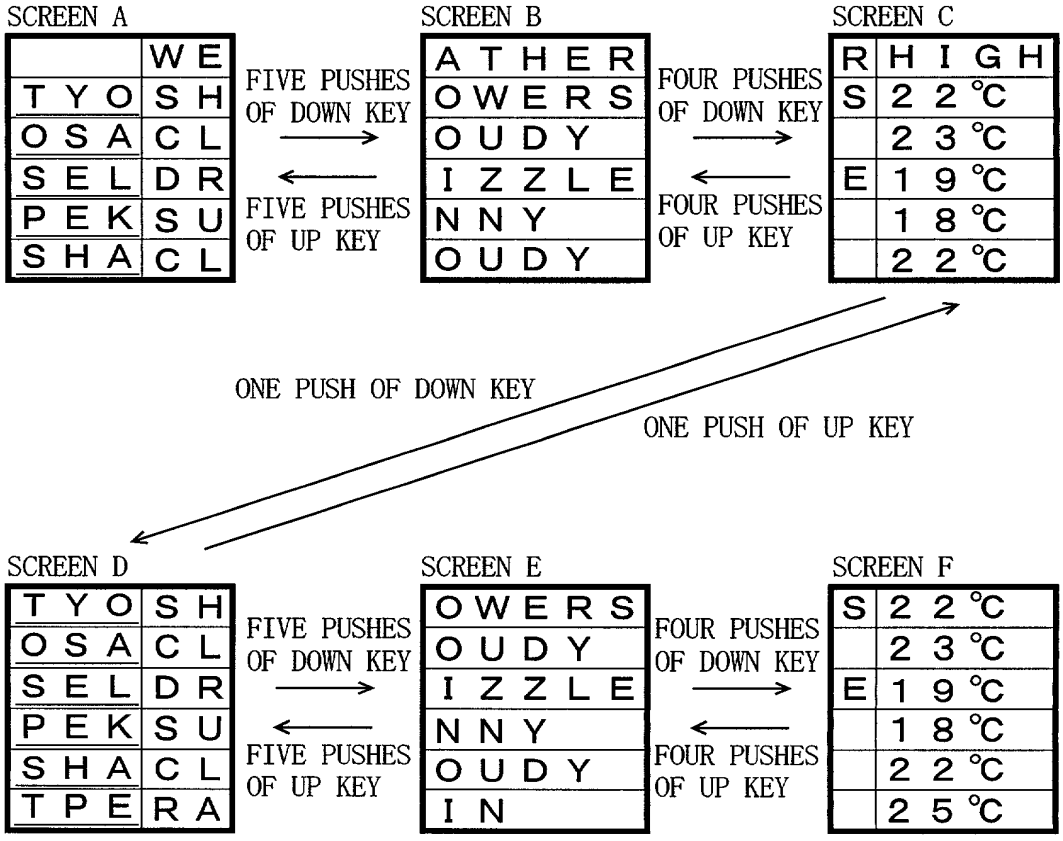
SCREEN A
WE
TYO SH
OSA CL
SEL DR
PEK SU
SHA CL
FIVE PUSHES OF DOWN KEY
FIVE PUSHES OF UP KEY
SCREEN B
ATHER
OWERS
OUDY
IZZLE
NNY
OUDY
FOUR PUSHES OF DOWN KEY
FOUR PUSHES OF UP KEY
SCREEN C
RHIGH
S 22℃
23℃
E 19℃
18℃
22℃
ONE PUSH OF DOWN KEY
ONE PUSH OF UP KEY
SCREEN D
TYO SH
OSA CL
SEL DR
PEK SU
SHA CL
TPE RA
FIVE PUSHES OF DOWN KEY
FIVE PUSHES OF UP KEY
SCREEN E
OWERS
OUDY
IZZLE
NNY
OUDY
IN
FOUR PUSHES OF DOWN KEY
FOUR PUSHES OF UP KEY
SCREEN F
S 22℃
23℃
E 19℃
18℃
22℃
25℃

FIG. 12

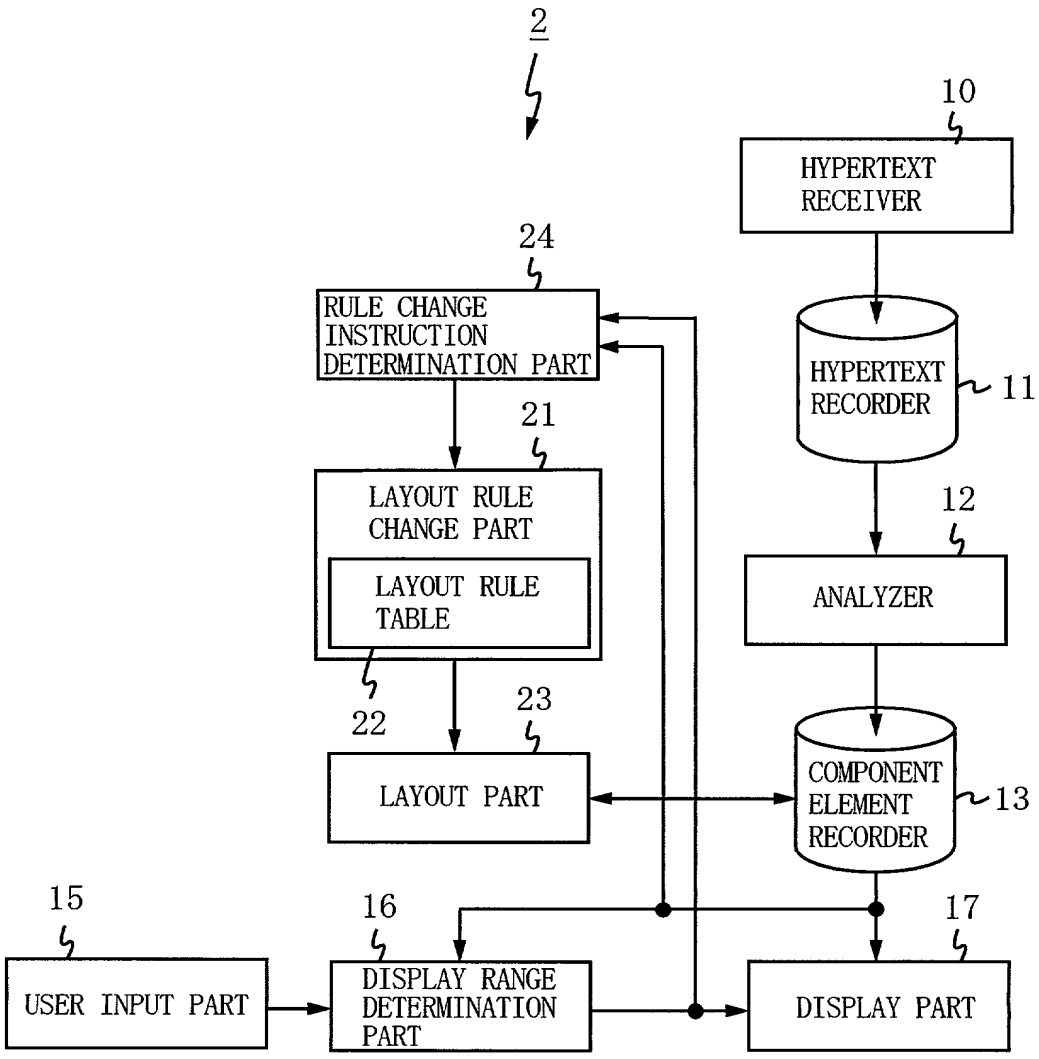
2
10
HYPERTEXT RECEIVER
24
RULE CHANGE INSTRUCTION DETERMINATION PART
HYPERTEXT RECORDER
11
21
LAYOUT RULE CHANGE PART
LAYOUT RULE TABLE
12
ANALYZER
22
23
LAYOUT PART
COMPONENT ELEMENT RECORDER
13
15
16
17
USER INPUT PART
DISPLAY RANGE DETERMINATION PART
DISPLAY PART

FIG. 13

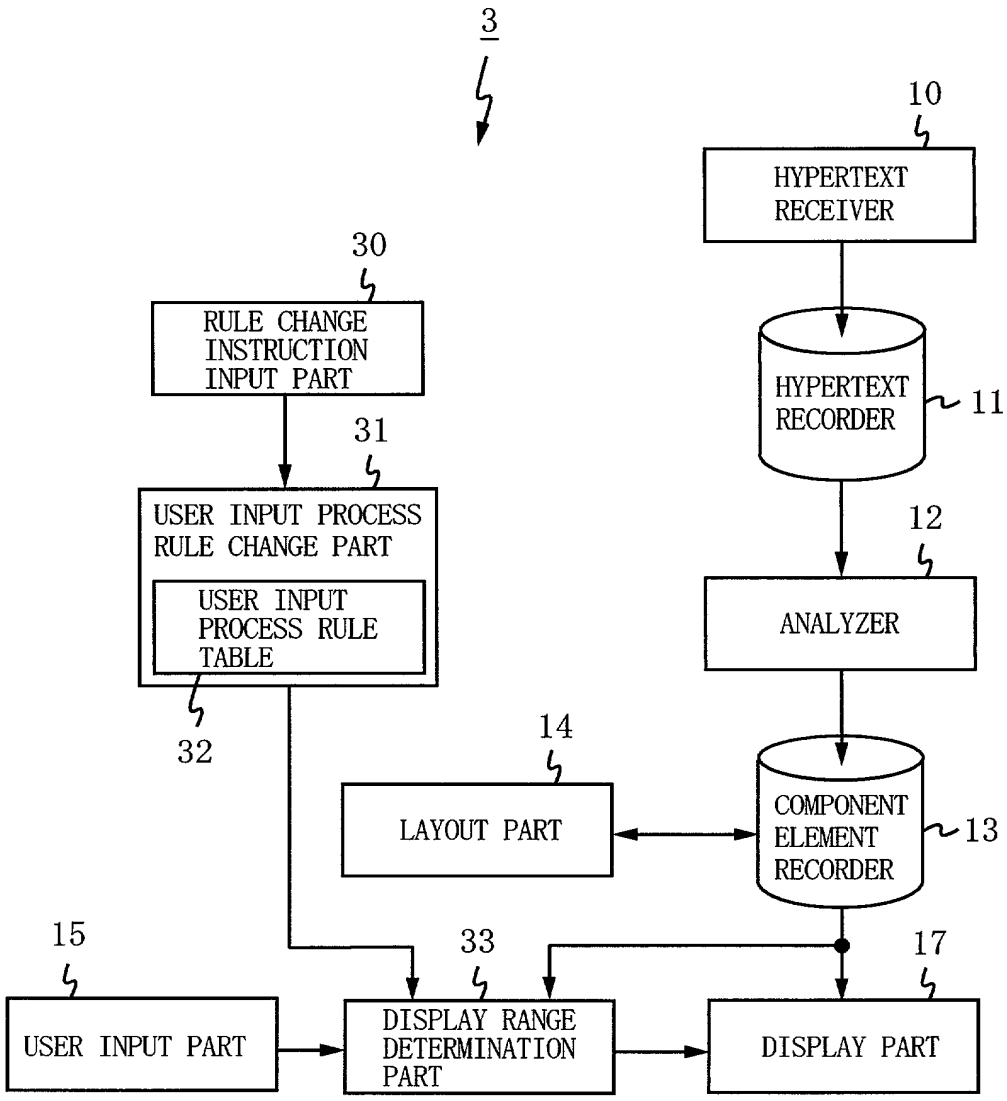
3
10
HYPERTEXT RECEIVER
30
RULE CHANGE INSTRUCTION INPUT PART
HYPERTEXT RECORDER
11
31
USER INPUT PROCESS RULE CHANGE PART
USER INPUT PROCESS RULE TABLE
12
ANALYZER
32
14
LAYOUT PART
COMPONENT ELEMENT RECORDER
13
15
33
17
USER INPUT PART
DISPLAY RANGE DETERMINATION PART
DISPLAY PART

FIG. 14

USER INPUT PROCESS RULE NUMBER	UP KEY	DOWN KEY	LEFT KEY	RIGHT KEY
FIRST USER INPUT PROCESS RULE	SCROLL UP A ROW	SCROLL DOWN A ROW	LEAD TO THE PRECEDING DOCUMENT IN HISTORY	LEAD TO THE FOLLOWING DOCUMENT IN HISTORY
SECOND USER INPUT PROCESS RULE	SCROLL UP A ROW OR A LETTER TO THE LEFT	SCROLL DOWN A ROW OR A LETTER TO THE RIGHT	LEAD TO THE PRECEDING DOCUMENT IN HISTORY	LEAD TO THE FOLLOWING DOCUMENT IN HISTORY
THIRD USER INPUT PROCESS RULE	SCROLL UP A ROW	SCROLL DOWN A ROW	SCROLL A SCREEN TO THE LEFT	SCROLL A SCREEN TO THE RIGHT
⋮	⋮	⋮	⋮	⋮

FIG. 15

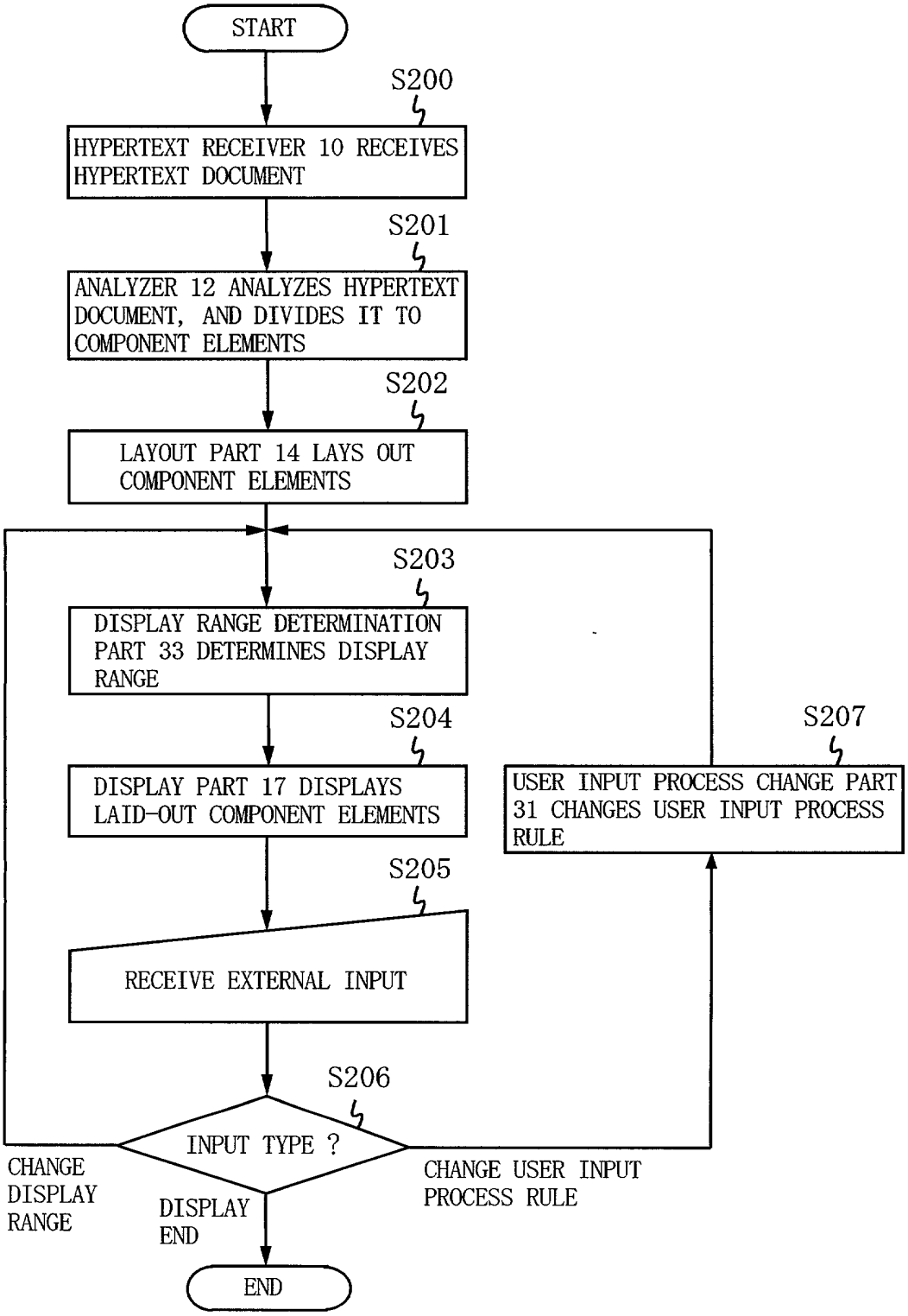
START
S200
HYPERTEXT RECEIVER 10 RECEIVES HYPERTEXT DOCUMENT
S201
ANALYZER 12 ANALYZES HYPERTEXT DOCUMENT, AND DIVIDES IT TO COMPONENT ELEMENTS
S202
LAYOUT PART 14 LAYS OUT COMPONENT ELEMENTS
S203
DISPLAY RANGE DETERMINATION PART 33 DETERMINES DISPLAY RANGE
S204
DISPLAY PART 17 DISPLAYS LAID-OUT COMPONENT ELEMENTS
S205
RECEIVE EXTERNAL INPUT
S206
INPUT TYPE ?
CHANGE DISPLAY RANGE
DISPLAY END
CHANGE USER INPUT PROCESS RULE
S207
USER INPUT PROCESS CHANGE PART 31 CHANGES USER INPUT PROCESS RULE
END

FIG. 16

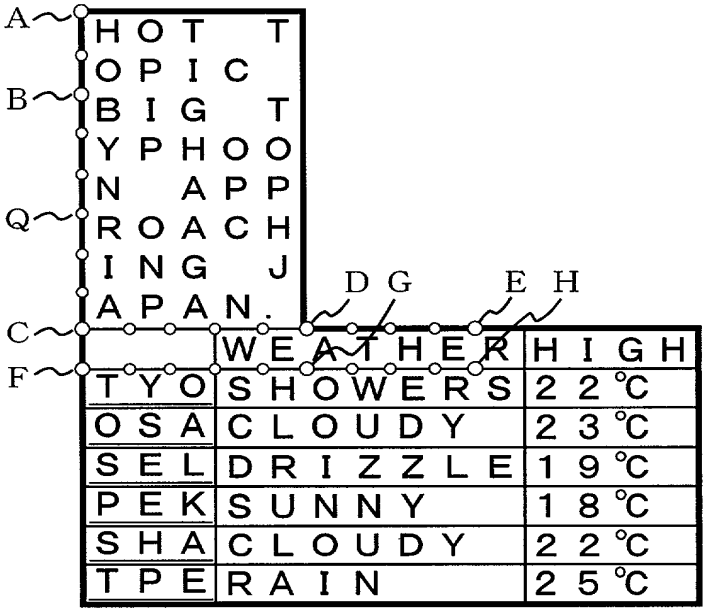
A
B
Q
C
F
HOT T
OPIC
BIG T
YPHOO
N APP
ROACH
ING J
APAN.
D G
E H
WEATHER
HIGH
TYO
SHOWERS
22℃
OSA
CLOUDY
23℃
SEL
DRIZZLE
19℃
PEK
SUNNY
18℃
SHA
CLOUDY
22℃
TPE
RAIN
25℃

FIG. 17

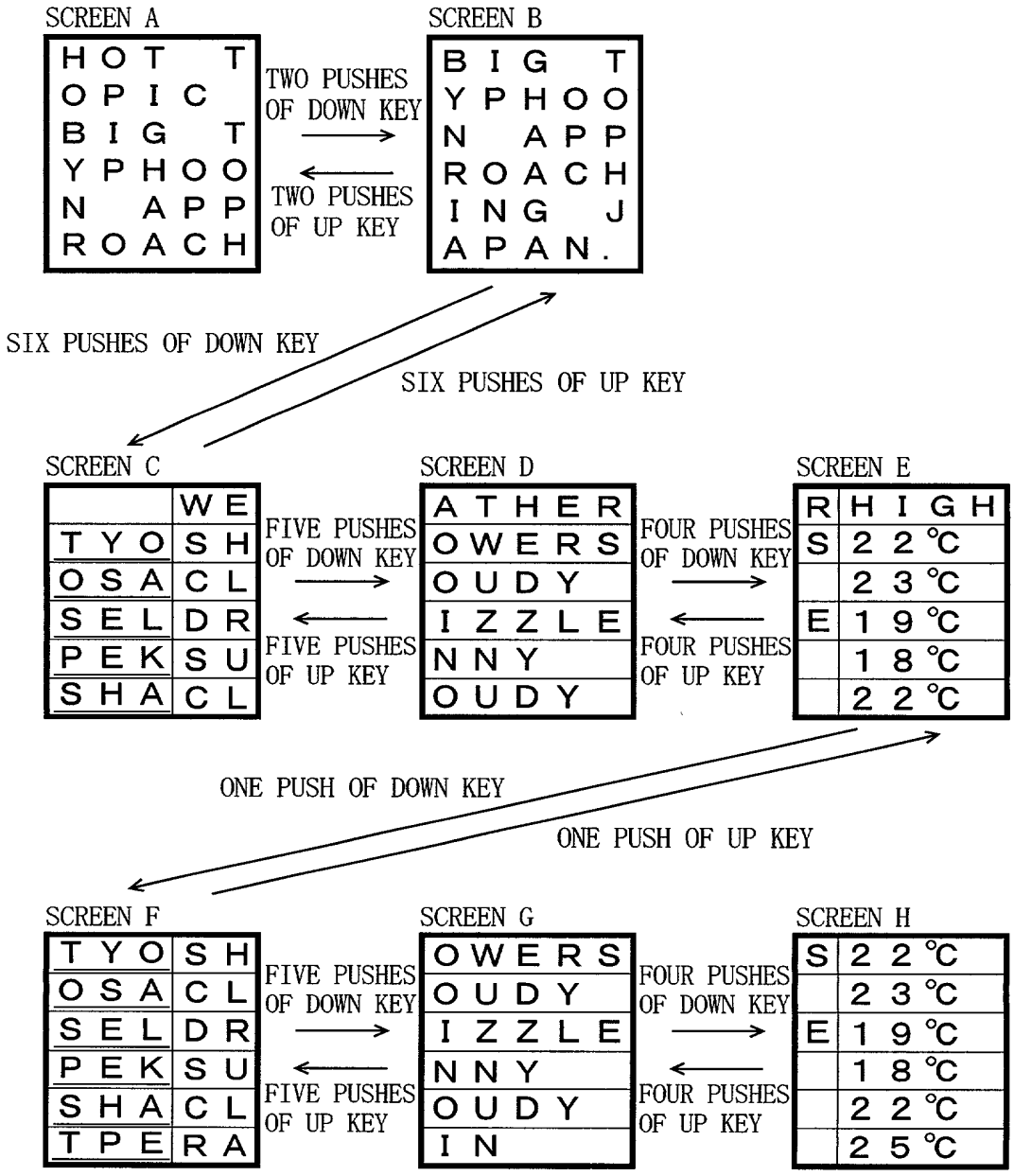
SCREEN A
HOT T
OPIC
BIG T
YPHOO
N APP
ROACH
TWO PUSHES OF DOWN KEY
TWO PUSHES OF UP KEY
SCREEN B
BIG T
YPHOO
N APP
ROACH
ING J
APAN.
SIX PUSHES OF DOWN KEY
SIX PUSHES OF UP KEY
SCREEN C
WE
TYO SH
OSA CL
SEL DR
PEK SU
SHA CL
FIVE PUSHES OF DOWN KEY
FIVE PUSHES OF UP KEY
SCREEN D
ATHER
OWERS
OUDY
IZZLE
NNY
OUDY
FOUR PUSHES OF DOWN KEY
FOUR PUSHES OF UP KEY
SCREEN E
R HIGH
S 22℃
23℃
E 19℃
18℃
22℃
ONE PUSH OF DOWN KEY
ONE PUSH OF UP KEY
SCREEN F
TYO SH
OSA CL
SEL DR
PEK SU
SHA CL
TPE RA
FIVE PUSHES OF DOWN KEY
FIVE PUSHES OF UP KEY
SCREEN G
OWERS
OUDY
IZZLE
NNY
OUDY
IN
FOUR PUSHES OF DOWN KEY
FOUR PUSHES OF UP KEY
SCREEN H
S 22℃
23℃
E 19℃
18℃
22℃
25℃

FIG. 18

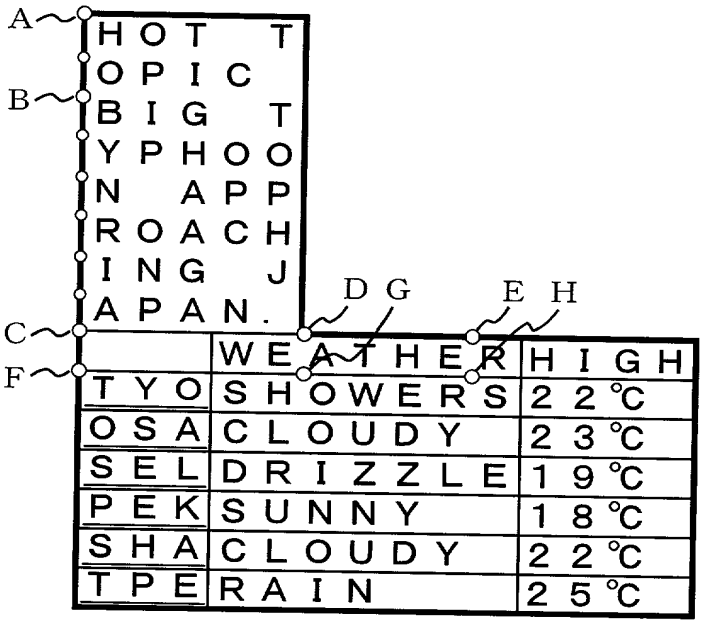
A
B
C
F
D G
E H
HOT T
OPIC
BIG T
YPHOO
N APP
ROACH
ING J
APAN.
WEATHER
HIGH
TYO SHOWERS 22℃
OSA CLOUDY 23℃
SEL DRIZZLE 19℃
PEK SUNNY 18℃
SHA CLOUDY 22℃
TPE RAIN 25℃

FIG. 19

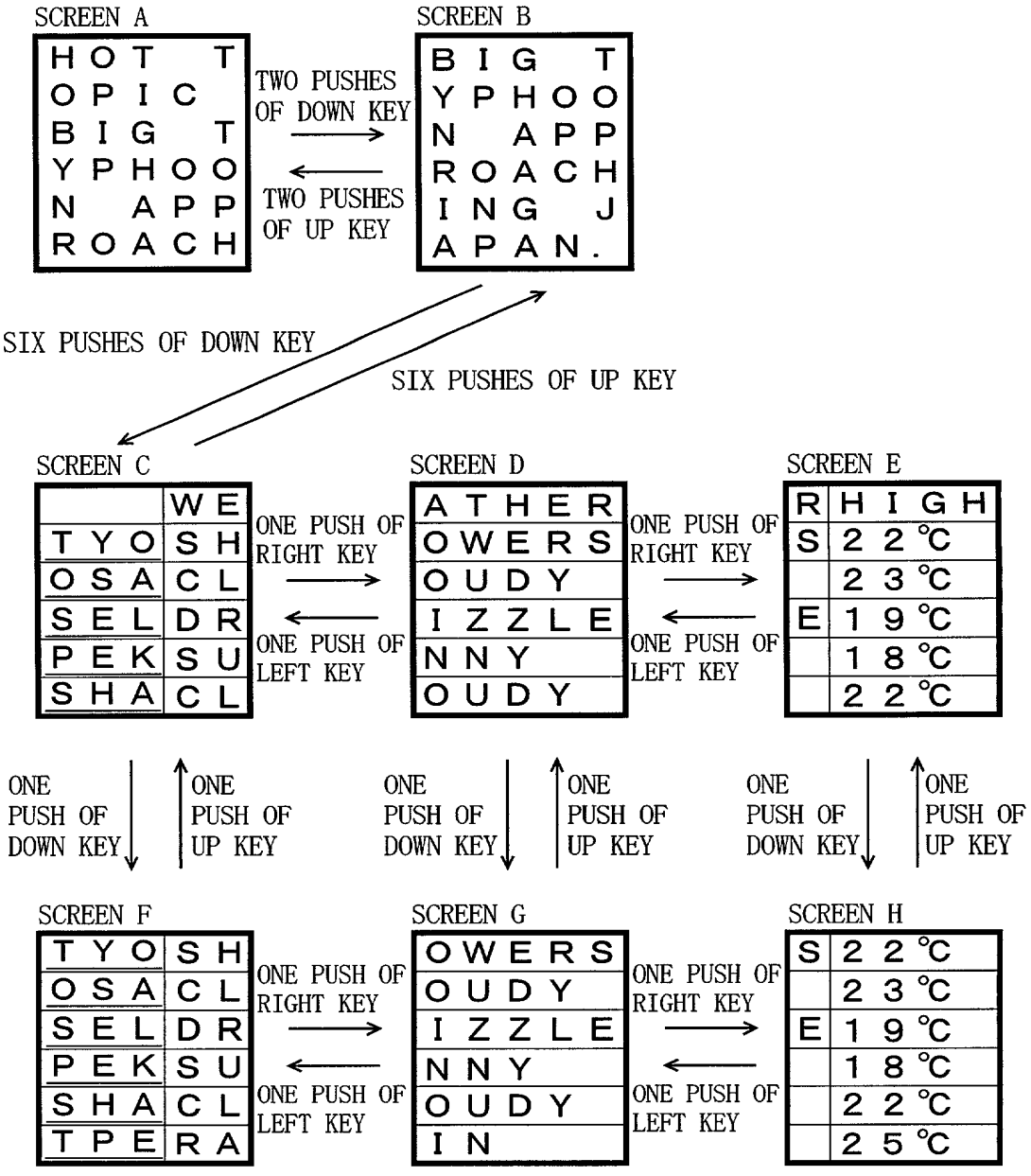
SCREEN A
HOT T
OPIC
BIG T
YPHOO
N APP
ROACH
TWO PUSHES OF DOWN KEY
TWO PUSHES OF UP KEY
SCREEN B
BIG T
YPHOO
N APP
ROACH
ING J
APAN.
SIX PUSHES OF DOWN KEY
SIX PUSHES OF UP KEY
SCREEN C
WE
TYO SH
OSA CL
SEL DR
PEK SU
SHA CL
ONE PUSH OF RIGHT KEY
ONE PUSH OF LEFT KEY
SCREEN D
ATHER
OWERS
OUDY
IZZLE
NNY
OUDY
ONE PUSH OF RIGHT KEY
ONE PUSH OF LEFT KEY
SCREEN E
RHIGH
S 22℃
23℃
E 19℃
18℃
22℃
ONE PUSH OF DOWN KEY
ONE PUSH OF UP KEY
ONE PUSH OF DOWN KEY
ONE PUSH OF UP KEY
ONE PUSH OF DOWN KEY
ONE PUSH OF UP KEY
SCREEN F
TYO SH
OSA CL
SEL DR
PEK SU
SHA CL
TPE RA
ONE PUSH OF RIGHT KEY
ONE PUSH OF LEFT KEY
SCREEN G
OWERS
OUDY
IZZLE
NNY
OUDY
IN
ONE PUSH OF RIGHT KEY
ONE PUSH OF LEFT KEY
SCREEN H
S 22℃
23℃
E 19℃
18℃
22℃
25℃

FIG. 20

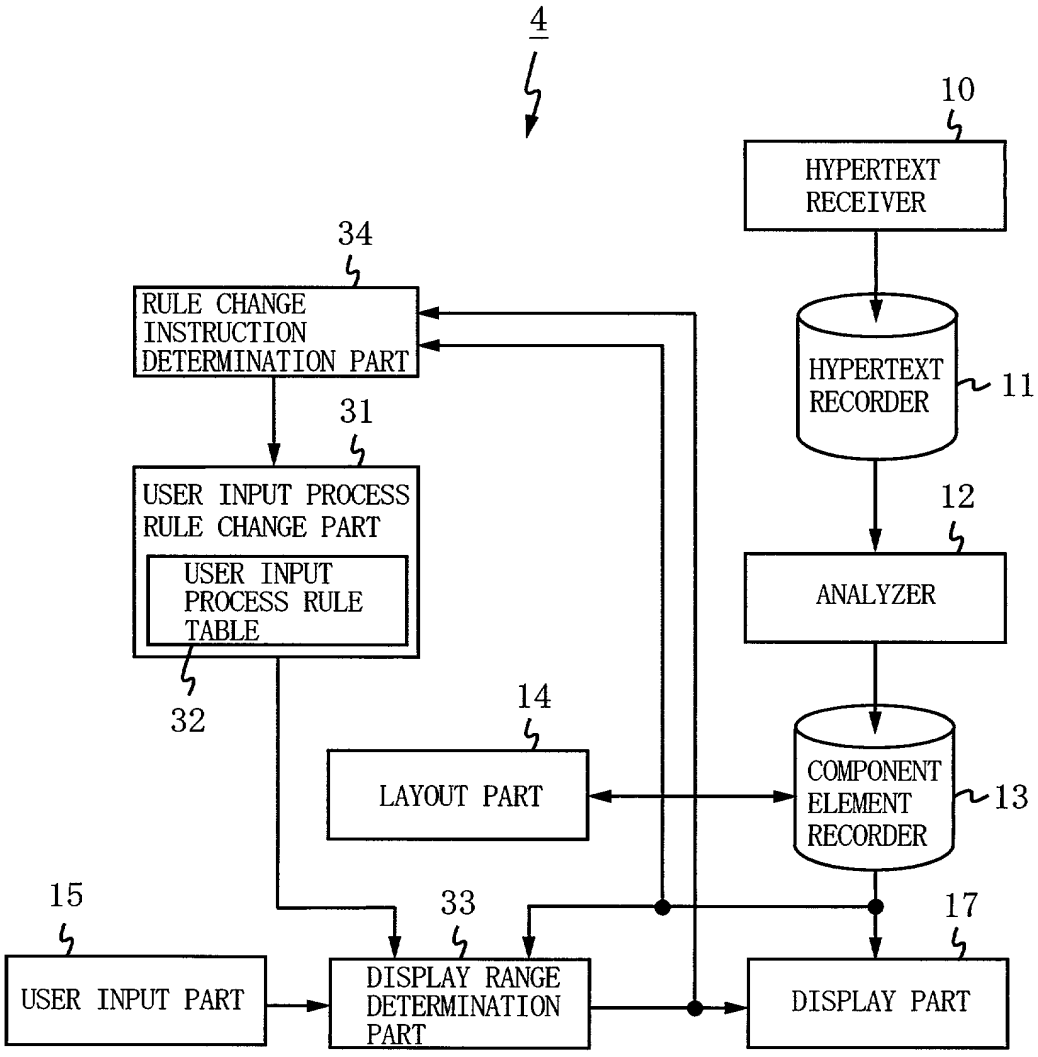
4
10
HYPERTEXT RECEIVER
34
RULE CHANGE INSTRUCTION DETERMINATION PART
HYPERTEXT RECORDER
11
31
USER INPUT PROCESS RULE CHANGE PART
USER INPUT PROCESS RULE TABLE
12
ANALYZER
32
14
LAYOUT PART
COMPONENT ELEMENT RECORDER
13
15
33
17
USER INPUT PART
DISPLAY RANGE DETERMINATION PART
DISPLAY PART

FIG. 21

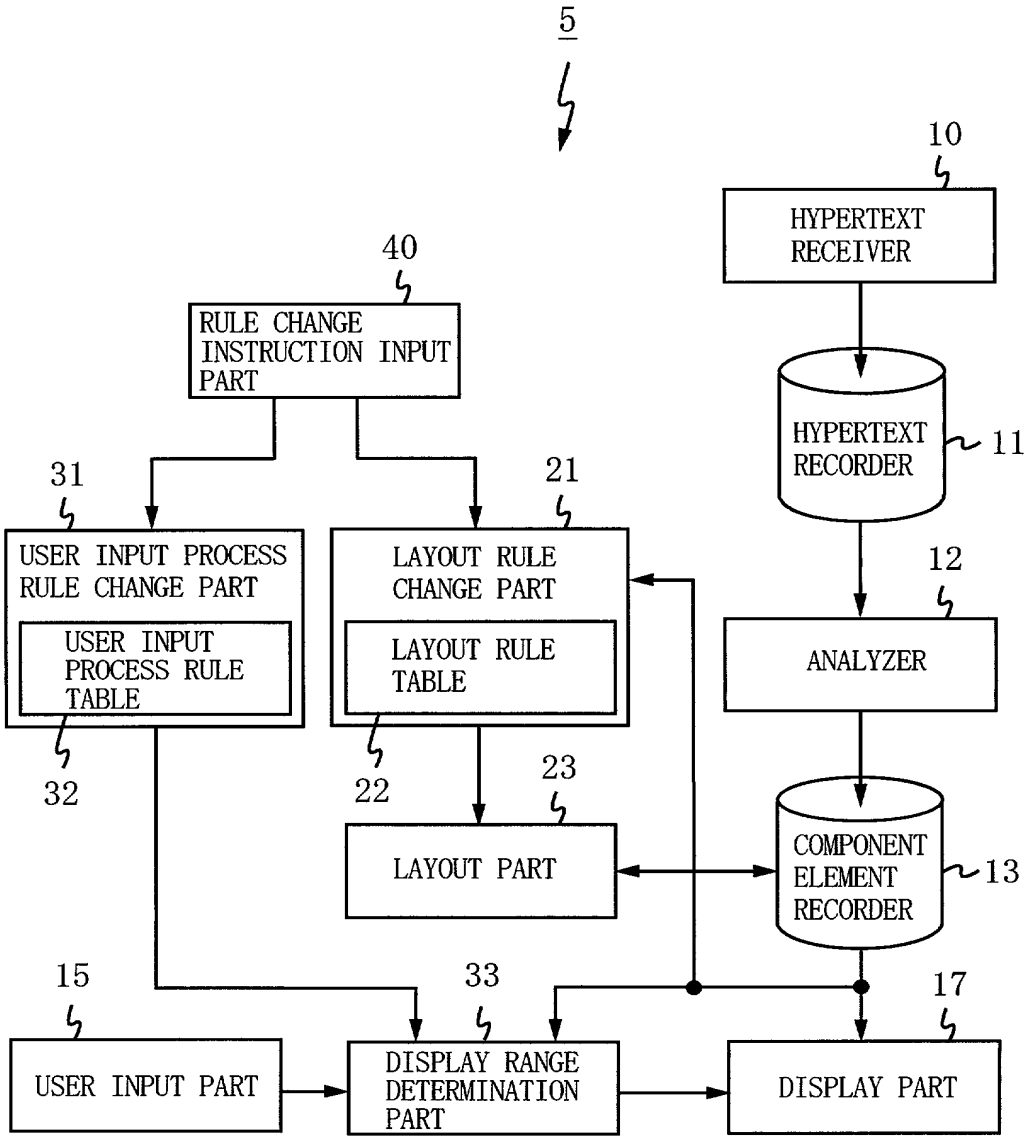
5
10
HYPERTEXT RECEIVER
40
RULE CHANGE INSTRUCTION INPUT PART
HYPERTEXT RECORDER
11
31
21
USER INPUT PROCESS RULE CHANGE PART
USER INPUT PROCESS RULE TABLE
LAYOUT RULE CHANGE PART
LAYOUT RULE TABLE
12
ANALYZER
32
22
23
LAYOUT PART
COMPONENT ELEMENT RECORDER
13
15
33
17
USER INPUT PART
DISPLAY RANGE DETERMINATION PART
DISPLAY PART

FIG. 22

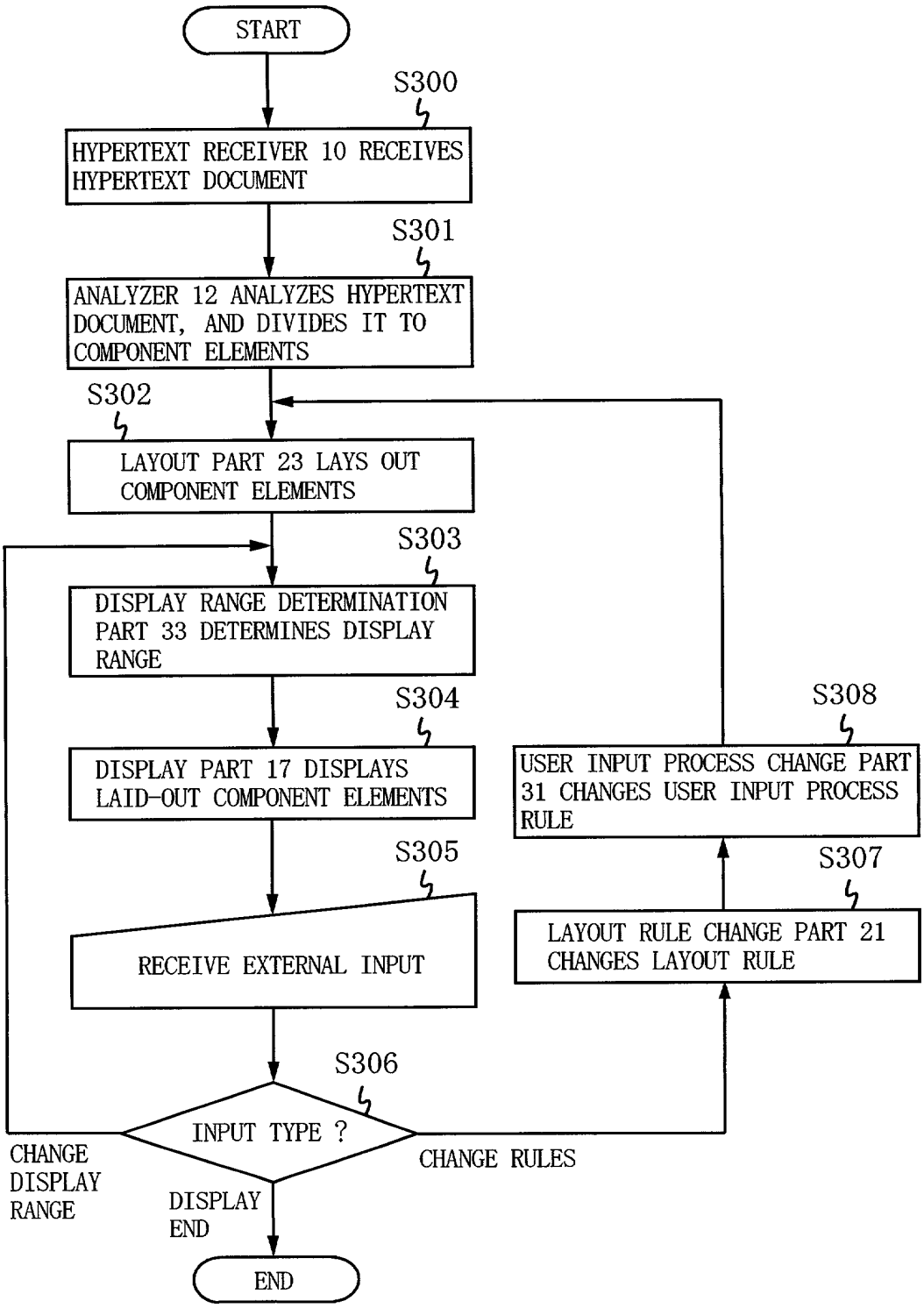
START
S300
HYPERTEXT RECEIVER 10 RECEIVES HYPERTEXT DOCUMENT
S301
ANALYZER 12 ANALYZES HYPERTEXT DOCUMENT, AND DIVIDES IT TO COMPONENT ELEMENTS
S302
LAYOUT PART 23 LAYS OUT COMPONENT ELEMENTS
S303
DISPLAY RANGE DETERMINATION PART 33 DETERMINES DISPLAY RANGE
S304
DISPLAY PART 17 DISPLAYS LAID-OUT COMPONENT ELEMENTS
S305
RECEIVE EXTERNAL INPUT
S306
INPUT TYPE ?
CHANGE DISPLAY RANGE
DISPLAY END
CHANGE RULES
S307
LAYOUT RULE CHANGE PART 21 CHANGES LAYOUT RULE
S308
USER INPUT PROCESS CHANGE PART 31 CHANGES USER INPUT PROCESS RULE
END

FIG. 23

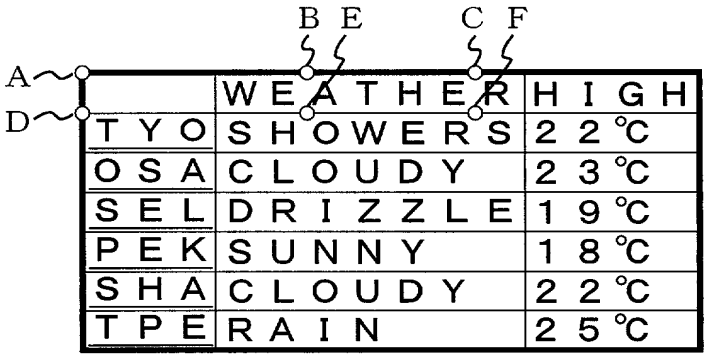
B E
C F
A
D
WEATHER HIGH
TYO SHOWERS 22℃
OSA CLOUDY 23℃
SEL DRIZZLE 19℃
PEK SUNNY 18℃
SHA CLOUDY 22℃
TPE RAIN 25℃

FIG. 24

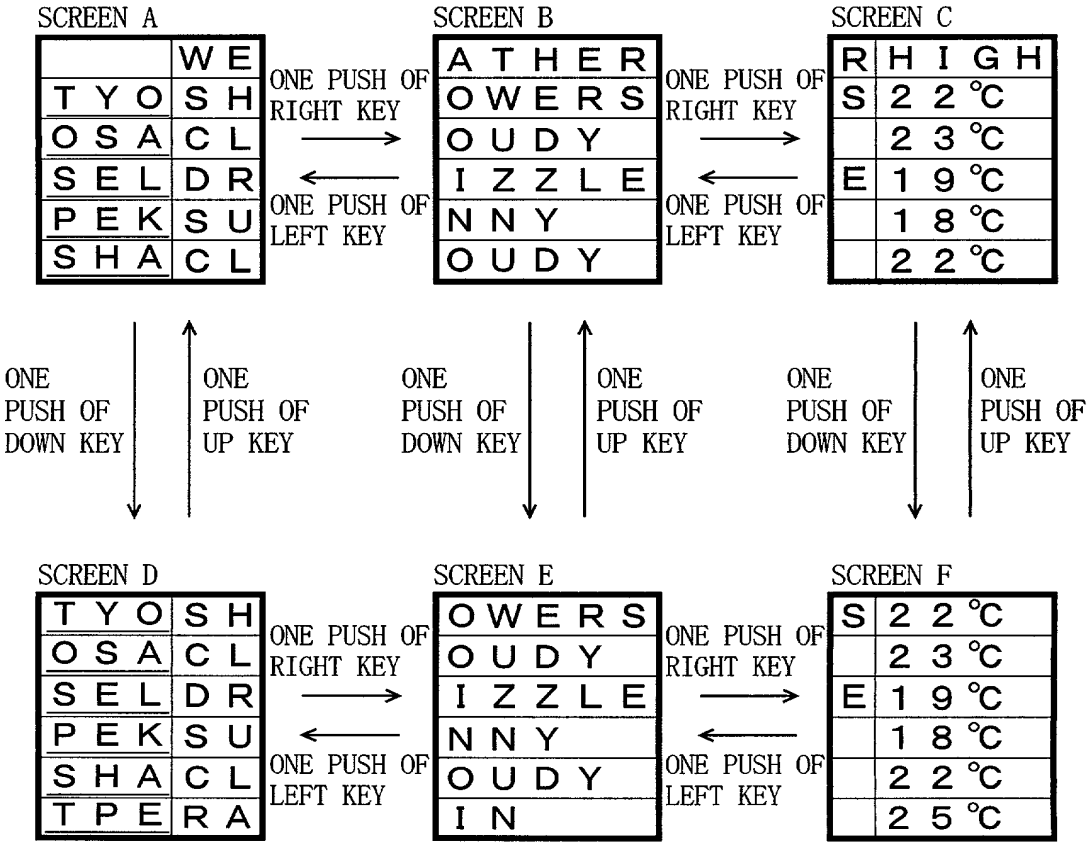
SCREEN A
SCREEN B
SCREEN C
SCREEN D
SCREEN E
SCREEN F
ONE PUSH OF RIGHT KEY
ONE PUSH OF LEFT KEY
ONE PUSH OF DOWN KEY
ONE PUSH OF UP KEY

FIG. 25

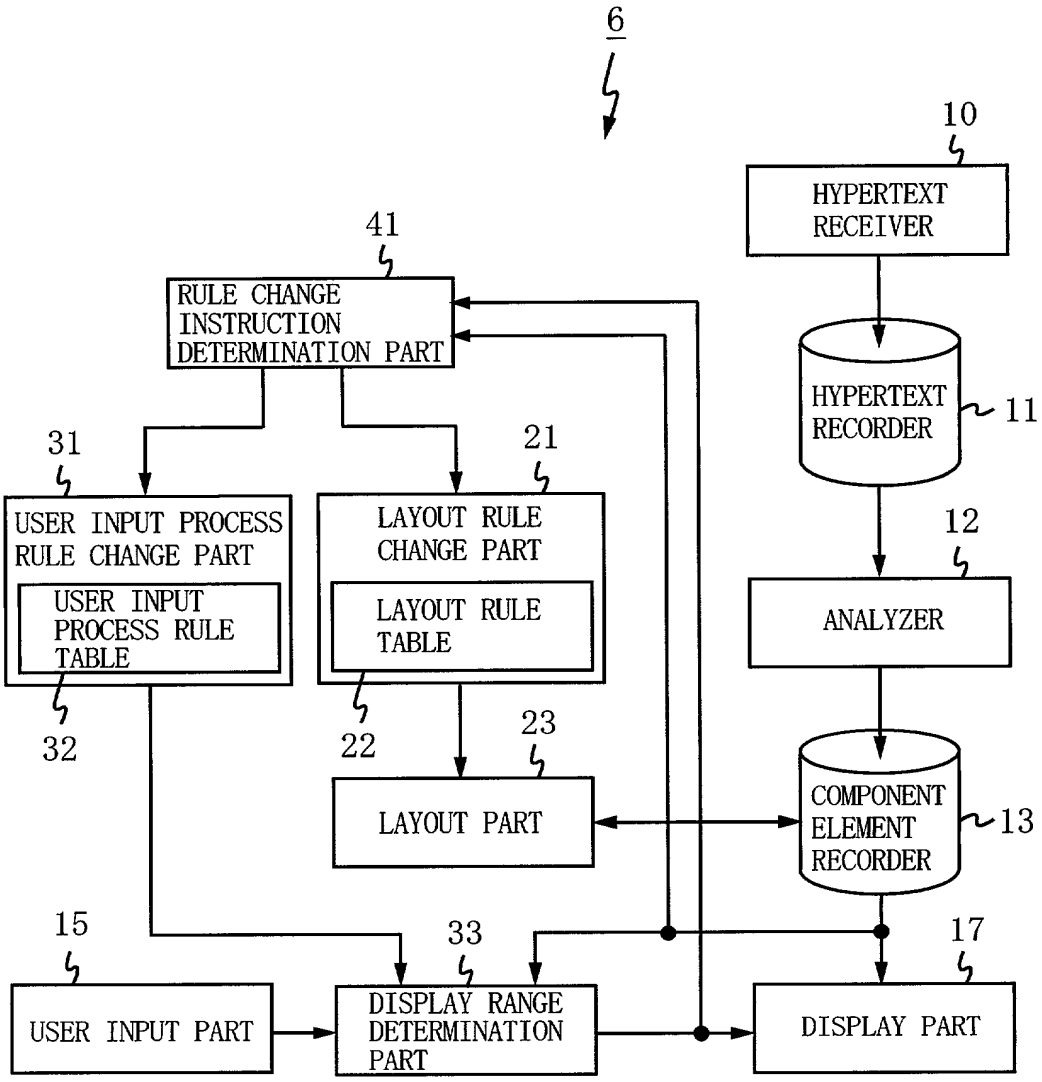
6
10
HYPERTEXT RECEIVER
41
RULE CHANGE INSTRUCTION DETERMINATION PART
HYPERTEXT RECORDER
11
31
21
USER INPUT PROCESS RULE CHANGE PART
USER INPUT PROCESS RULE TABLE
LAYOUT RULE CHANGE PART
LAYOUT RULE TABLE
12
ANALYZER
32
22
23
LAYOUT PART
COMPONENT ELEMENT RECORDER
13
15
33
17
USER INPUT PART
DISPLAY RANGE DETERMINATION PART
DISPLAY PART

FIG. 26 PRIOR ART

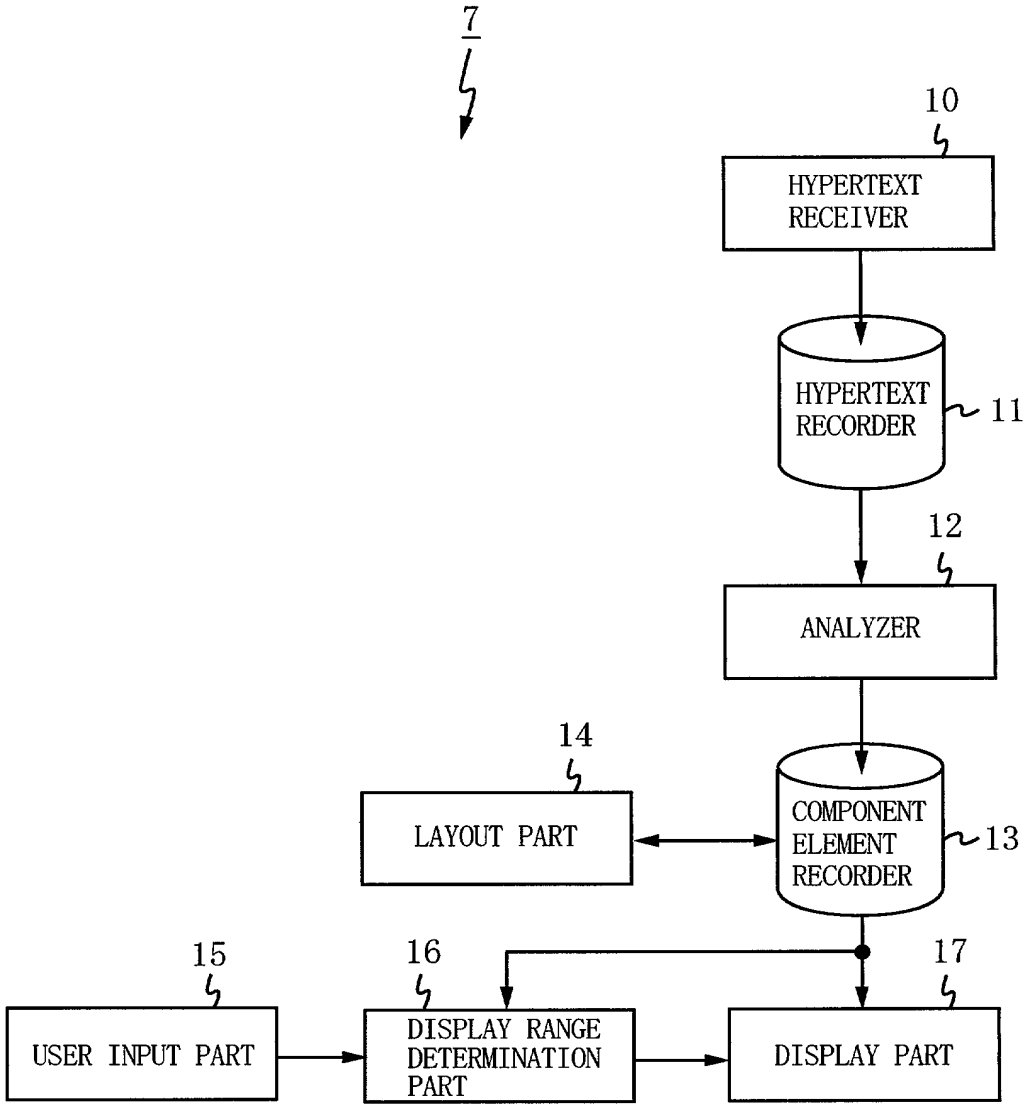

FIG. 27

```
<HTML>
<BODY>
<P>HOT TOPIC
<P>BIG TYPHOON
APPROACHING JAPAN.
</BODY>
</HTML>
```

FIG. 28 PRIOR ART

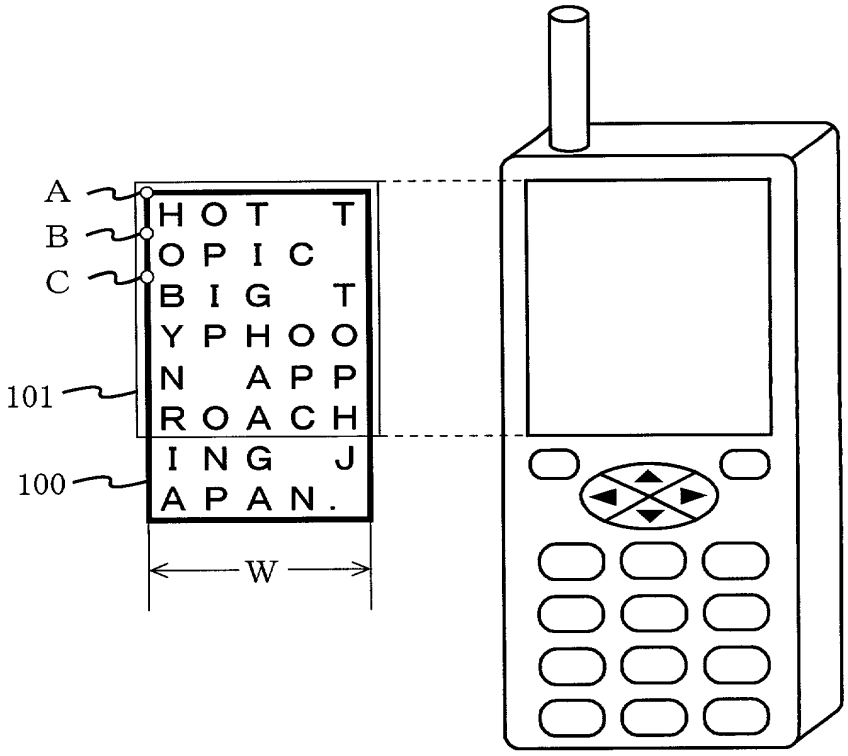

FIG. 29 PRIOR ART

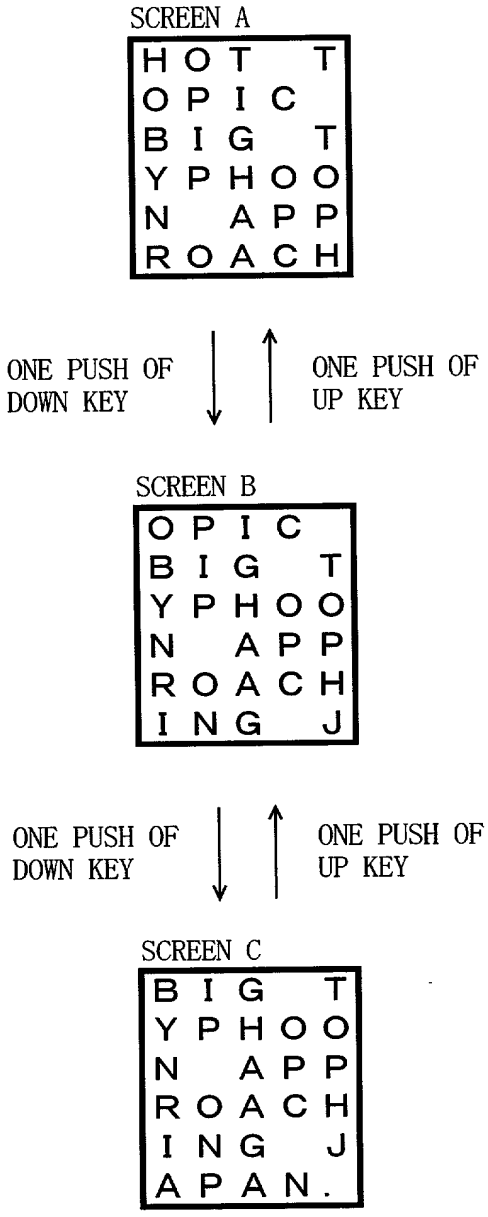

FIG. 30 PRIOR ART

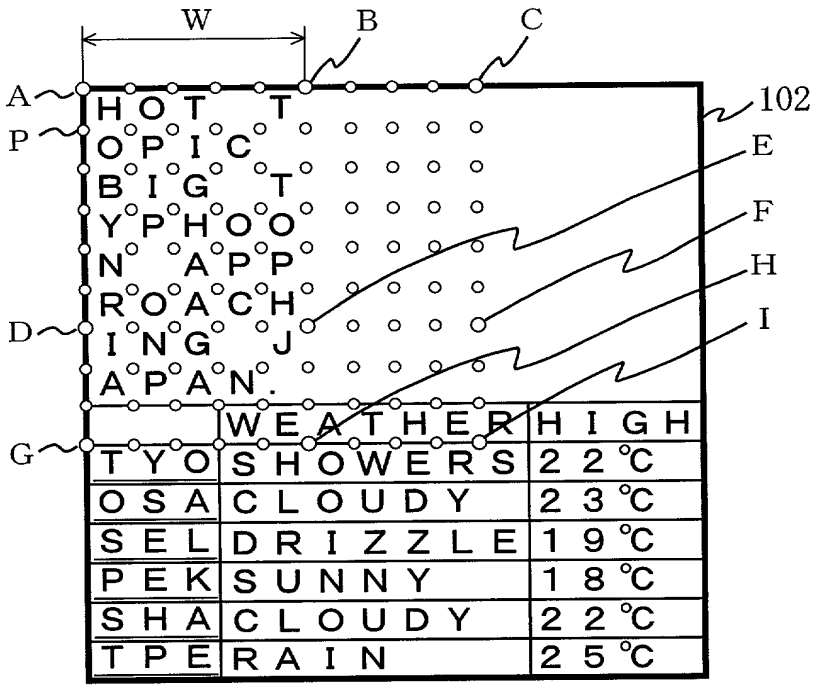

FIG. 31 PRIOR ART

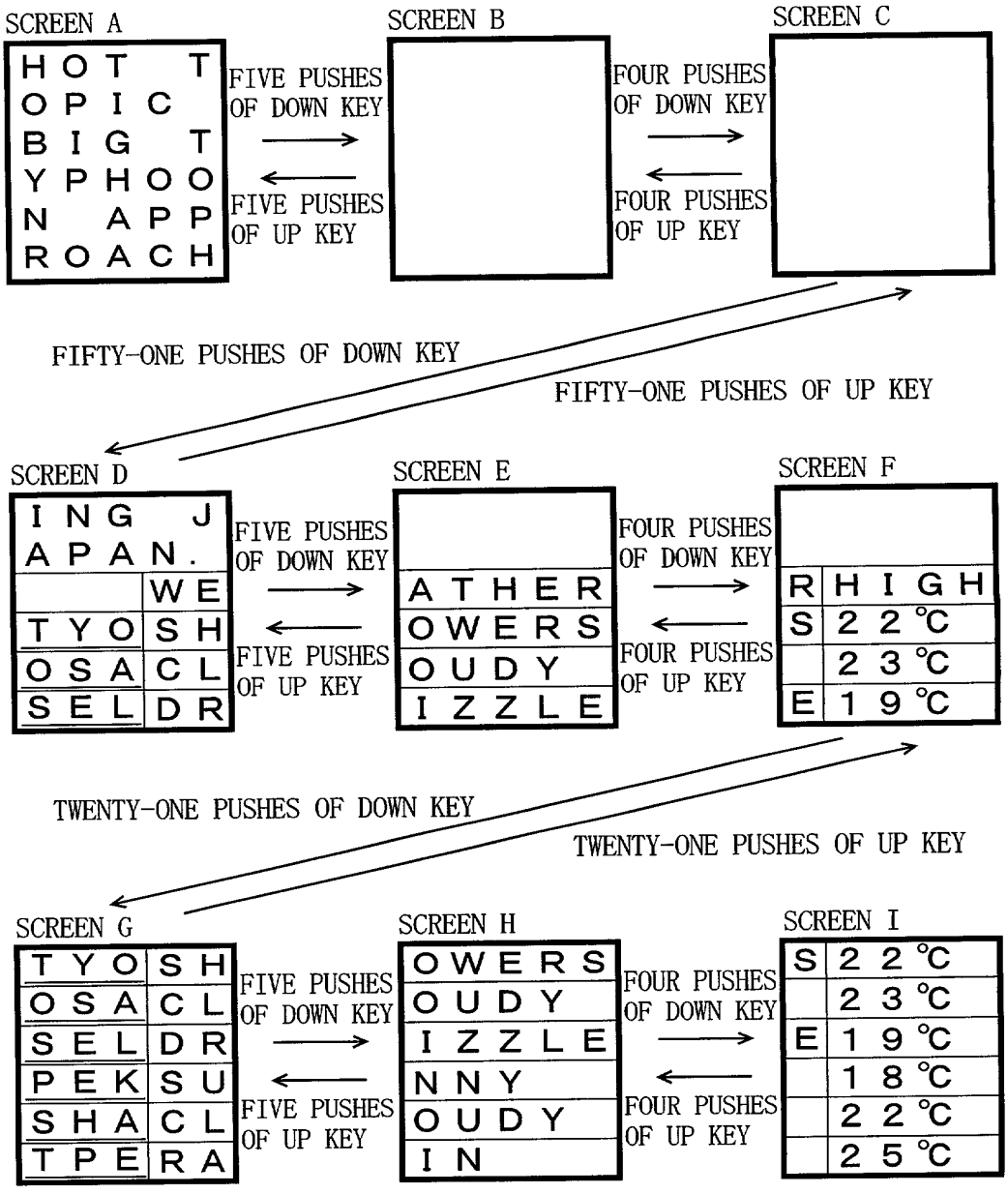

FIG. 32 PRIOR ART

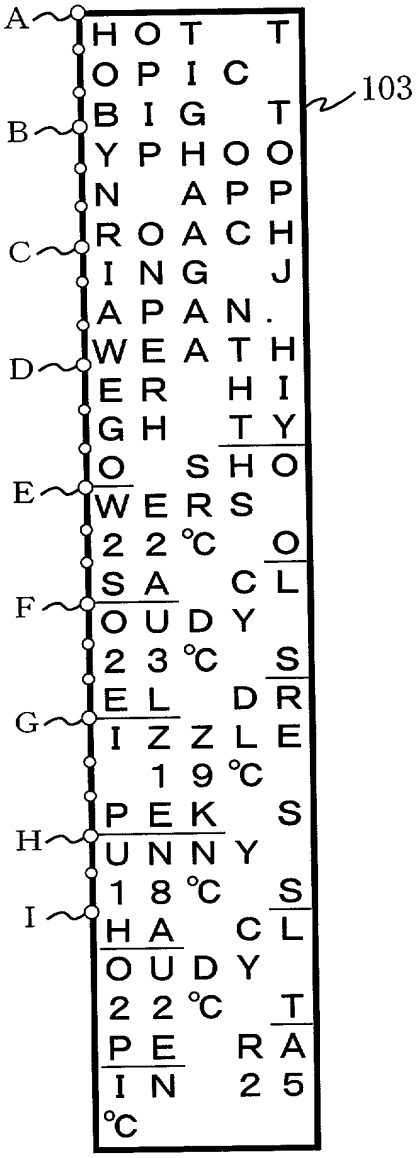
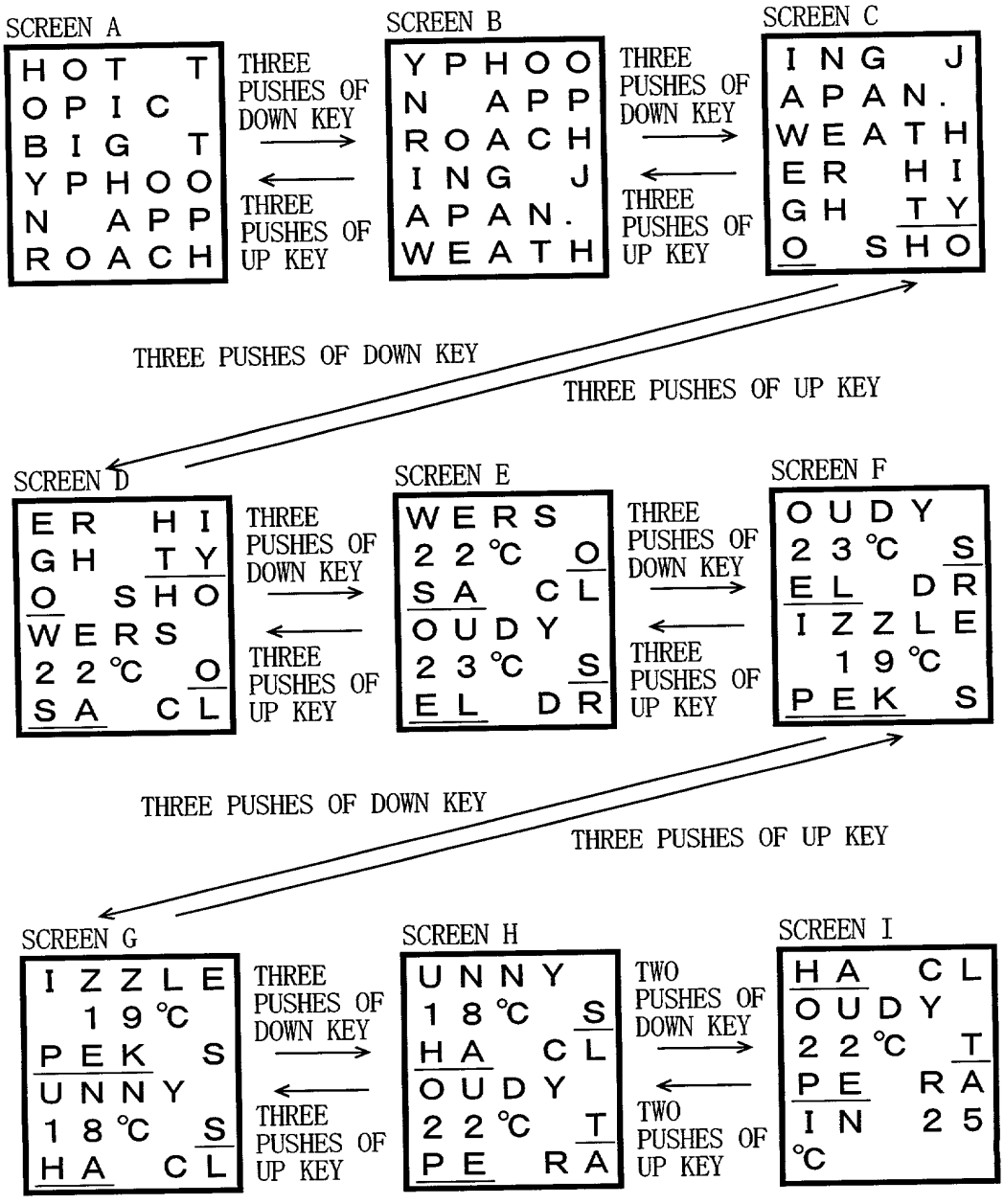
FIG. 33 PRIOR ART